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	ent bradle	1900 AUG 22 FM 1-
	Bradley, FIT RPO	States energy and the
nazard	ous Waste Section (6ES-SW)	00000
Martha	McKee, Chief	900684
	ance Section (6AW-SC)	
Site Na Locati Hazsit	on: Paradera Tx.	
TDD No		D-980-514970
		•
Λ. De:	liverables:	·
1.	Preliminary Assessment (Form 2070-2	2) attached ( )
2.		
3.		attached ()
14.	Other:	attached ()
B. Wei	e drinking water wells sampled?	Yes ( ) No ( -)
C. An	Alytical Data:	
1.	None collected	. ( )
2.		$\dot{}$
3.	Contract lab results	attached ()
4.	Houston lab results	attached ()
D. Con	ments:	
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mal	there results, it appear	us that love
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FEB 1 1 1993 REORGANIZED

# ECOLOGY AND ENVIRONMENT, INC. REGION VI MEMORANDUM

TO: Keith Bradley, Region VI RPO

FROM: Deborah Vaughn-Wright, FIT-Geologist DUW

THRU: K.H. Malone Jr., RPM Htm

DATE: August 15, 1985

SUBJ: Sampling Inspection at (Hughes Landfill, Pasadena, TX (TX1473)

TDD#R6-8502-26. TXD 980-514970

Hughes Landfill (AKA Hughes Trash Disposal) is an active private landfill operated in Pasadena, TX. It covers approximately 62 acres at the intersection of Genoa-Red Bluff Road and Farley Street (See location map-figure 1).

The site was formerly a sand quarry which was converted to a landfill in 1969. Originally, disposal at the site was to natural grade until 1981 when increased activity raised it 20 feet. Around 1979-1980, a clay liner system was implemented to satisfy Texas Department of Health requirements. However, before that time no liner system was present.

During the original FIT reconnaissance inspection (1-18-84), two soil/leachate samples were collected along the northeastern side of the inactive disposal area.

Several elevated readings were detected of organics and inorganics. Arsenic (only metal found) was detected at concentrations 1.5 to 4 times greater than background. Fluoranthene, bis(2-ethylhexyl) phthalate and pyrene (three priority pollutants) were also found as were elevated concentrations of ammonia and sulfides. Based on these results, a sampling plan was developed to further characterize the site.

On November 8, 1984, a proposed FIT sampling plan was submitted to EPA. According to the plan, surface water, soils and a monitoring well sample were to be collected from around the southern portion of the inactive landfill. Since that proposal, Hughes has implemented an expansion of the landfill which required a change of sample locations. The attached site sketch (Figure 2) illustrates these changes and shows the new sample station locations.

On April 16, 1985, a five person field investigation team conducted the sampling inspection. The team consisted of Deborah Vaughn-Wright (Team Leader), Les Cole (safety officer), Thomas Walzer (documentation/decontamination officer), Steve Calhoun (sampler) and James Trusley (sampler).

SUPERFUND FILE

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The sample station locations were as follows:

01 - Surface water from the south end of a new landfill cell being excavated east of the inactive landfill area.

## Field Measurements

Conductivity: 1000 umhos

Temperature: 33°C

pH:

Originally station 01 was to be a monitoring well (FS-04), however this well was destroyed in the process of excavating the new landfill cell. The new station 01 is in the same general area. Because of the new landfill's cell depth (25-30 ft.), groundwater and/or leachate has seeped into the excavation area. It is believed that this water was not rainwater because of the dry weather the area had been experiencing. Sample 01 should indicate if contaminants are reaching the groundwater.

- 02 Shallow soil (0-3") taken frm a depression along the southern central portion of the inactive landfill.
- 03 Deep soil (12-15") taken from the same location as 02. Cover is very shallow in this area, fill was encountered below 12"-15".
- 04 Shallow soil (0-3") taken in the dry drainage canal that follows the southern limit of the inactive landfill area. The sample was taken southwest of the inactive area at the canals end.
- 05 Deep soil (30"-36") taken from the same location as 04.
- 06 Surface soil taken in the new landfill cell being excavated along the eastern side (downgradient) of the inactive landfill area. Sample was taken at the south end approximately 10 ft. below the top of the nearly vertical west wall.
- 07 Surface soil taken in the same location as 06; 2 ft. below the top of the west cell wall.
- 08 Surface soil from the north end of the west wall of the same newly excavated area as 06. Sample taken approximately 15 ft. below the top of the wall.
- 09 Surface soil taken in the same location as 08; but 5 ft. below top of the wall.
- 10 Surface soil taken southwest of the site in the leachate path of the drainage canal.
- 11 Surface water from standing water pool in drainage canal southwest of the site.

### Field Measurements

Conductivity: 800 umhos

Temperature: 30°C

pH: 6

12 - Surface water from small rectangular pit, southeast side of inactive landfill area, (QA/QC). Pit receives water pumped from the landfill and leachate from the inactive landfill area.

# Field Measurements

Conductivity: 1100 umhos

Temperature: 32°C

pH:

13 - Surface water from standing water pooled between the new east landfill cell and the inactive landfill area.

#### Field Measurements

Conductivity: 3600 umhos

Temperature: 34°C

pH:

6

The attached photographs indicate these sample station locations and current site conditions.

Sample Data: Inorganic Analysis

For the five water samples no metals above primary drinking water standards set by the EPA were found. The inorganic analyses for soil did show elevated levels of metals (antimony, beryllium, cobalt, copper, lead, nickel and zinc). The only elevated metal found off-site was beryllium at sample station 10.

Sample Data: Organic Analysis

Organic analysis for the five water samples showed that sample location 01 contained several volatile organic compounds at low concentrations. The other water sample locations contained several tentatively identified compounds but not at the magnitude as station 01.

Acetone and several polynuclear aromatic compounds were found in soil sample locations 02 & 10. Aroclor-1242 at 44 ppb was also found in 02. Sample 03 contained dieldrin (620 ppb), 4.4'-DDD (290 ppb) and chlordane (1500 ppb).

#### Summary

After reviewing the data it appears that some polynuclear aromatic compounds that are present in the older landfill are migrating off-site to the south.

It is recommended that a monitoring well system be established for the closed landfill area, the new landfill area being excavated to the south and for the Harris/Farley Street Site whose wells were destroyed. The attached proposed well plan (Figure 3) gives approximate locations. Earlier drilling performed by the FIT at the Harris/Farley Street site should give an idea for anticipated depths and stratigraphy.

Table II: ORGANIC ANALYSIS SUMMARY

Site Name/Code Hughes L. F. TX 1473 Case Number \_\_4197 Concentration ppb Page <u>1</u> of <u>3</u>

	_							_		_	_				
Sample Station Number and Location	Ccan	Fraction /Class	02 SOUTH CENTRAL PORTION OF	O3 SOUTH CENTRAL PORTION OF INACTIVE	04 S.W. CORUR OF FN- AC FIVE L.R. IN DRAINAGE	05 S.W.CORVER OF EN- ACTIVE L.F. IN E DRAINAGE	06 SIDE OF INACTIVE LANDFILL IN NEW	OT RCENTRAL SIBE OF INACTIVE LANDFILL IN NEW CELLS	08 E.SIDE OF INACTIVE L.F. N.W. WALL OF NEW CELL	E.SIDE OF INACTIVE L.P. N.W.	ATE PATH IN S. W.	•			
<u> </u>	Scamp	Fraction	LANDENLL	LANDPILL	- Dircy,	DITCH "	CELLS.W.	WALL	-1			1	ł	·	1 ,
Compound	NO.1	/Class	10-3"	12-15	10-3	30-36	TO DEEP	1'DEEP	15'DEEP				<del></del>	┵ー'	<b></b> '
LEPA SAMPLE NUMBER		<u> </u>	FA /0/	/ PA_/00	FA /69	9 FA //U	U FA //1	1 FA //Z	FA //3			<del></del>	<b></b>	- <b></b> '	<u> </u>
MATRIX		<u> </u>	SOIL						SOIL	SOIL	SOIL	1		<u> </u>	<u> </u>
Methylene chloride		VOA/1	4JB		5J		7.	26	5J	56	21	1		_Γ′	
Chloroform		VOA/1	2JB	' '	2JB	B 2JB	В 2ЈВ	В 2ЈВ	3JB	3ЈВ	ЗЈВ	ſ	Γ		<u> </u>
Toluene	,	VOA/1	· ·		IJ			4J						T	
Trichloroethene	,	VOA/1	,	·	<u> </u>	2J	·			1	·		1		<u> </u>
Ethylbenzene		VOA/1	<u> </u>		<u> </u>		<u> </u>		3J	1	. —— '		<u> </u>	<del>                                     </del>	·
1,1,2,2-tetrachloroethane		VOA/1	<del>                                     </del>	1	<del></del>	<b></b>	<u> </u>		1	1	8		1	+	<del>                                     </del>
Acetone		VOA/2	410	1	440	320	210	1200	. 170	250	950	<del> </del>	<del> </del>	+	<del> </del>
2-hexanone	$\xrightarrow{\cdot,\cdot\cdot\cdot\cdot}$	VOA/2	1	<del> </del>	+	<del> </del>	+	1-12-	+	1-2-	- 330 8J	<del> </del>	<del> </del>	+	1
Total Xylenes	<del></del>	VOA/2	1	+	+	+	+	1	16	11	1	<del> </del>	+	+	1
Acenaphthene		ABN/1	50J	1	+	+	+	<del></del>	<del> **</del>	+	1	<del></del>	<del> </del>	+	<del> </del>
Phenanthrene		ABN/1	1400	<del> </del>	+	+	+	+	<del> </del>	+	+	+	<del> </del>	+	+
Anthracene		ABN/1 ABN/1	100J	+	+	+	+	4	+	<del></del>	+	+	+	<del> </del>	<del></del>
				300 17	В 200ЈВ	В 200ЈВ	10017	1-200 IB	1- 200 IB		+	+	<del></del>	<b></b>	<del></del> '
Di-n-butylphthalate		ABN/1	660B	300JB		200Jb	B 100JB	B 200JB	300JB	300JB		+	+	<b></b> ′	4
Fluoranthene		ABN/1	1700	+	+	.4	4'	4	4	<b>4</b> '	100J	+	+	<b></b> ′	<b>,</b>
Pyrene	$\overline{}$	ABN/1	2100	<del></del>	205	4	<del> </del>	4	4	<del></del>	_100J	4	<del></del>	<b></b> '	4
Butylbenzylphthalate		ABN/1	100J		<del></del> ,	<del></del>	<del></del> '	<del>1</del>	<del></del>	<del></del>	<del></del> '	4		<b></b>	4
Bis(2-ethylhexyl)phthalate		ABN/1	100JB	3 2600B	200JB	в 90јв	В 80ЈВ	В 90ЈВ	50JB	70JB	'ـــــــــــــــــــــــــــــــــــــ	4	<del></del>	<u> </u>	4
Chrysene	,	ABN/1	2000	<del></del>	<del></del> ·	4	<del></del> '			<b></b> ·	'ـــــــــــــــــــــــــــــــــــــ	1		,	<u></u>
Benzo(b)fluoranthene	'	ABN/1	2600	<b></b>	<del></del>	1	<del></del> ;			<u> </u>	80J	1			'ا
Benzo(a)pyrene		ABN/1	1100				<u>.                                    </u>				50J	<u> </u>	<u> </u>		<u> </u>
Indeno(1,2,3,-cd)pyrene		ABN/1	570									<u> </u>		Ι	
Benzo(g,h,i)perylene		ABN/1	460		·						[		Ι	T	
Benzo(a)anthracene	, ·	ABN/1					Ţ		1	<b>1</b>	100J			Τ	
Phenol	,	ABN/1				20JB	ا				·		1	1	,
Benzoic acid		ABN/2	300J	1	1	1	<del> </del>	1	<del> </del>	1	<u></u>		1	1	<u> </u>
2-methylnaphthalene		ABN/2	60J	200J	<del> </del>	1	<del> </del>	1	<del> </del>	+	1	<u> </u>	<del>                                     </del>	<del>                                     </del>	<del> </del>
4-methylphenol		ABN/2	1	500J	+	1	+	1	+	+	+	<del></del>	+	+	<del> </del>
Dieldrin	<del></del>	PEST/1	<del>                                     </del>	620	+	1	+	1	+	+	1	<del> </del>	+	+	<del>                                     </del>
4,4-DDD		PEST/1		290	+	+	+	+	+	+	+	<del> </del>	+	+	<del></del>
Chlordane		PEST/1		1500	+	+	+	+	+	+	+	+	+	+	+
			420	1200	+	+	+	+	+	+	+	+	+	+	+
Aroclor-1242		PCB/1	4.20	1-4	+	+	<del></del>	+	+	<del>-</del>	<b></b>	+	+	<del></del>	+
Dichlorofluoromethane	'	VOA/3	4	66	4	+	+	+	+	<del></del>	<del> </del>	+	<del></del>		+
Hexane	'	VOA/3	4	7	+	<del></del>	<del></del>	4	4	<b></b>	<del></del>	+	<del></del>	<b>4</b>	<del></del>
Xylene		VOA/3	<del></del>	16	<del></del>		<del></del>		<del></del>	<b>4</b>	<b></b> '	4	<del></del>	<b></b>	4
1-methyl-3-propylbenzene		VOA/3	<del></del>	53	<del></del>	+	<del></del>	<del></del> _	<del></del>	<del></del>	<del></del> '	4	<del></del>	<b></b>	4
Tetrahydrofuran	<u> </u>	VOA/3	<del></del>		<b></b> `		<b></b> `	10		<b></b>	'ـــــــــــــــــــــــــــــــــــــ	4		<b></b> _	4
	66	VOA/3	<u> </u>		<b></b> `		<b></b> ;			·	13	<u> 1 :</u>		<b></b>	1
	483	VOA/3		49	<u></u>		<u></u> ,			<u></u>	<u> </u>	<u> </u>		<u> </u>	ſ
	569	VOA/3		16									J	Ι΄	
	595	VOA/3		10				Γ			Ĺ '	ſ <u></u>	Ι	Ι	Γ
	606	VOA/3		12					1		<u> </u>				
	647	VOA/3		11						1			Τ	Τ	
	663	VOA/3		13			1		1	1			1		
		1		1	<del> </del>	1	<del>                                      </del>	1	<del> </del>	<del> </del>	1	<del></del>	1	<del> </del>	
<del> </del>	<del></del>	+	1	<del> </del>	1	1	<del> </del>	1	1	<del>1</del>	1	<del></del>	+	+	<del> </del>
<del></del>		+	+	+	+	<del> </del>	<del> </del>	1	+	+	+	<del></del>	1	+	1
		<del> </del>	+	+	+	+	1	<del></del>	+	<del> </del>	+	1	+	+	<del></del>
1. Priority Pollutant.		1	VOA - Vo	datile	4	4	R - The	anal vte	is found	in the lab	h hi ank	4	4	4	4
				loidelle	المساهد مالا		1 100			משי שונו וווי					50.0

- Priority Pollutant.
- 2. Specified Hazardous Substance.
- 3. Tentatively Identified.
- ABN Acid Base/Neutral 'Pest - Pesticide
- B The analyte is found in the lab blank.
  J Indicates an estimated value for tentatively identified compounds or for compounds found below detection limit.

  P - Present in sample, but not reported by lab.

4/12.35 Table II: ORGANIC ANALYSIS SUMMARY Case Number 4197 Concentration ppb Page 2 of 3Site Name/Code Hughes L. F. TX 1473 08 Sample Station Number and Location Scan Fraction No. /Class Compound EPA SAMPLE NUMBER FA 774 FA 767 FA 768 FA 769 FA 770 FA 771 FA 772 FA 773 FA 775 MATRIX SOIL SOIL SOIL SOIL SOIL SOIL SOIL SOIL SOIL ABN/3 11B 270B 110B 25B 76B 241B 640B 106B 4-hydroxy-4-methyl-2-pentanone 4-hydroxy-4-methy1-2-pentanone 190B 210B 320B 440B 340B ABN/3 98B 430B 2,2,5,5-tetramethylhexane ABN/3 8 3,3-dimethylhexane ABN/3 13 2.6-dimethyloctane ABN/3 UNKNOWN 730 ABN/3 7 UNKNOWN 746 ABN/3 8 2,2,3-trimethylhexane ABN/3 5 ABN/3 5 UNKNOWN ABN/3 2,2,3,4-tetramethylpentane 4 ABN/3 UNKNOWN 1369 6 4B UNKNOWN 1568 ABN/3 16B 118 6B 9B 98B 19B UNKNOWN 1583 ABN/3 5B 17B 14B 12B 7B 10B 120B 30B Hexadecanoic acid ABN/3 11 54 900B 1715 ABN/3 78B 490B 370B 510B 260B 340B 830B UNKNOWN UNKNOWN 1718 ABN/3 66 2900 ABN/3 16 Octadecanoic acid 6 1807 14 ABN/3 8 UNKNOWN ABN/3 UNKNOWN 1838 -4 ABN/3 8B 19B UNKNOWN 1868 25B 30B ABN/3 13B 18B 22B 6B UNKNOWN 1918 UNKNOWN 2065 ABN/3 UNKNOWN 2092 ABN/3 7B 12B 16B 21B 2355 ABN/3 UNKNOWN UNKNOWN 2360 ABN/3 10 UNKNOWN 414 ABN/3 16 UNKNOWN 454 ABN/3 120B 76B 44B 550B UNKNOWN 1105 ABN/3 200 UNKNOWN 1744 ABN/3 10B 94B 18B 8B 5B UNKNOWN 1761 ABN/3 15 11B 15B 4B 17B 31B UNKNOWN 1874 ABN/3 13B 17B 16B 113 19B UNKNOWN 1939 ABN/3 16 28 13 UNKNOWN 2181 ABN/3 24 12 UNKNOWN 423 ABN/3 25B UNKNOWN 651 ABN/3 61 UNKNOWN 784 ABN/3 21 UNKNOWN 2524 ABN/3 40 11 130 2,4-dimethylheptane ABN/3 7B 6B 9B UNKNOWN 431 ABN/3 17 12 14 26 2,3-dimethyl-1,2.3-butanediol ABN/3 13 UNKNOWN ABN/3 10B 2282 UNKNOWN ABN/3 462 110 UNKNOWN 1336 ABN/3 31 Diphenylmethanone ABN/3 55 UNKNOWN 2425 ABN/3 11 UNKNOWN 2584 ABN/3

Priority Pollutant.

Specif ed Hazardous Substance. 3. Tentatively Identified.

ABN - Acid Base/Neutral Pest - Pesticide

VOA - Volatile

B - The analyte is found in the lab blank.

J - Indicates an estimated value for tentatively identified compounds or for compounds found below detection limit. P - Present in sample, but not reported by lab.

Table II: ORGANIC ANALYSIS SUMMARY

Page <u>3</u> of 3 Site Name/Code Hughes L. F. TX 1473 Case Number 4197 Concentration ppb Sample Station Number and Location /Class Compound BLOG EPA SAMPLE NUMBER FA 764 FA 765 MATRIX VOA/I Methylene chloride 19B 8B 10B 5JB 5JB 1.1-dichloroethene VOA/1 5J Trans-1.2-dichloroethene VOA/1 5J Chloroform VOA/1 5J I.I.1-trichloroethane 5J VOA/I 5J Carbon tetrachloride VOA/1 5J Bromodichloromethane VOA/1 5J Trichloroethene VOA/1 5J 5J 5J Benzene VOA/1 5J 5J Tetrachloroethene VOA/1 5J 1,1,2,2-tetrachloroethane VOA/1 5J 5J 5J Toluene VOA/1 5J Chlorobenzene VOA/1 5J Ethylbenzene VOA/1 4-methy1-2-pentanone VOA/2 190 Total Xvlenes VOA/2 21 Bis(2-ethylhexyl)phthalate ABN/1 25 20J 190 2,4-dimethyl-3-pentanone VOA/3 6 Dichlorofluoromethane VOA/3 83 Thiobis methane VOA/3 51 TrichloroFluoromethane VOA/3 26 Ethanedioc acid VOA/3 27J 2-methyl-3-hexanone VOA/3 10 578 11 UNKNOWN ABN/3 UNKNOWN 543 ABN/3 14 10J Trans-1,2-dichlorocyclohexane ABN/3 11 12J 15 16 UNKNOWN ABN/3 11 UNKNOWN 947 ABN/3 17 UNKNOWN ABN/3 13 Trans-4-chlorocyclohexanol ABN/3 37 1,4-dimethylnaphthalene ABN/3 11 1. Priority Pollutant. VOA - Volatile B - The analyte is found in the lab blank. ABN - Acid Base/Neutral

Specif ed Hazardous Substance.

Pest - Pesticide

Tentatively Identified.

J - Indicates an estimated value for tentatively identified compounds or for compounds found below detection limit.

P - Present in sample, but not reported by lab.

CASE NUMBER: 4197

SITE NAME/CODE: Hughes L. F. TX 1473

	CONCENTRATIONS (ppb)  EPA Sample Numbers												Drinking Water Criteria		
PARAMETER		277 Sample Name: 3											Drinking nater criteria		
	MFA 091	MFA 092	MFA 093	MFA 022	MFA 023							Primary	Secondary		
Matrix type	WATER	WATER	WATER	WATER	WATER										
Aluminum	1,160	1,520		332	443										
Antimony															
Arsenic		12										50			
Barium	256	144		430	364							1000			
Beryllium				1.3											
Cadmium				,								10			
um	113,000	288,000	89	116,000	128,000										
Umpai um .	4.1	23	Ī									50			
Cobalt	4.7				4.3								I		
Copper	16	7.5		24	21								1000		
Iron	1,030	2,300	14	308	432				22				300		
Lead												50			
Magnesium	34,900	91,600	45	23,000	33,000										
Manganese	171	1,030	1.6	147	101		1					1	50		
Mercury												2			
Nickel															
Potassium	• .	24,600													
Selenium												10			
Silver									<u> </u>			·, 50			
Sodium	52,200	440,000	98	55,700	60,000										
Thallium										·					
Tin				22		···									
Vacati um		6.1			3.3					]			<u> </u>		
	12	22	6.1	20	14								5000		
Cyanide			8.6		/3										
									]						
	-										I				
				,		, -			i	Ţ	I				
Station No.	01	13	14	11	12										
Sample															
Station			.				1			1		Ī	1		
Location							ľ						·.		
- :		_			`		1 .		<b>\</b>	}		}			
	•														

E-indicates a value estimated or not reported due to the presence of interference. R-spike sample recovery is not withing control limits.
\*-duplicate annalysis is not within control limits.

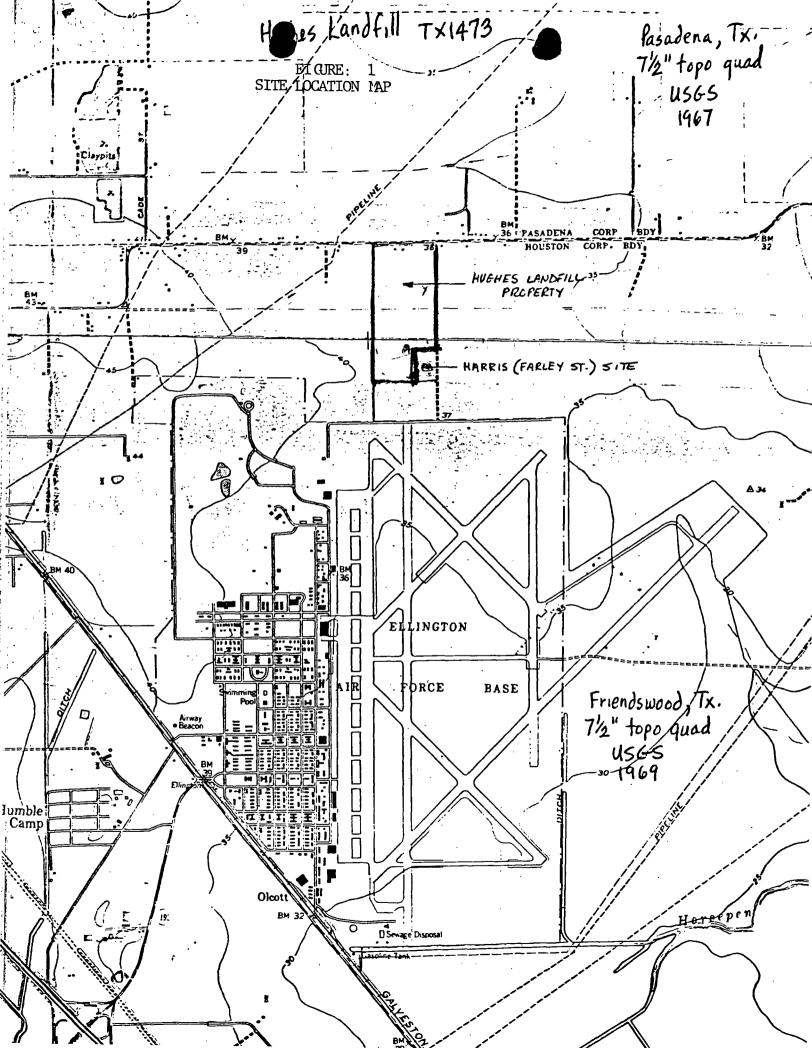
CASE NUMBER: 4197

SITE NAME/CODE: Hughes L. F. TX 1473

CONCENTRATIONS (moh) mg/kg

PARAMETER				Drinking Wa	ter Criteria								
													_
	V7. 00/											Primary	Secondar
	MFA 094	MFA 095	MFA 096					4		<b> </b>			
Matrix type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	ļ			·
Aluminum	27,000	14,100	3,360	7,600		9,470	6,930	7,120	3,540		-		
Antimony	36	22			17	·	ļ <u>.</u> .	<b>_</b>	ļ				
Arsenic		·						<u> </u>	<u> </u>			50	· · · · · · · · · · · · · · · · · · ·
Barium	184	154	63	325	244		105	75	91	<u> </u>		1000	·
Beryllium _	2.3	2.3	1.1	1.2	1.7	1.3	1.3		0.78				
Cadmium							<u> </u>					10	
um	51,800	77,100	13,400	97,500	131,000	26,200	52,400	12,400	12,400	J_			
in um	29	28	5.3	7.1	8.2	9	10					50	
Cobalt	11	7.4	3.6	2.9	9.9	5.6	8.7		3.9				•
Copper	41	1,100	5.0	4.4	6.1	6.4	8.8		1.8				1000
Iron	21,600	14,700	5,270	4,580	12,300	6,460	8,240	7,240	4,680				300
Lead	23	55	8.6	5.1	5.9	10	5.9	14	6.2		•	50	-
Magnesium	6,600	4,070	1,680	6,920	2,830	3,400	3,900	1,200	1,260				
Manganese	313	495	160	67	280	104	333	75	311				50
Mercury		0.97				· · · · · · · · · · · · · · · · · · ·		1				2	***
Nickel	22	18	7.4				9.5	†	12	t	<del></del>		
Potassium	3,880	1,340	t — — — —				656	1,950	734	<del>                                     </del>			<del></del>
Selenium				2.9			<del> </del>	<del></del>	1	<del>                                     </del>		10	
Silver			<b></b>			<del> </del>				<del>                                     </del>		50	
Sodium	259	1,150	121	227	185	167	244	105	129	<del>                                     </del>			
Thallium		-,						1	<del> </del>	<del>                                     </del>			
Tin		16				<del>                                     </del>	-		<del>                                     </del>	<del> </del>			
Vacadi um	41	102	9.1	15	62	20	13		8.4	<del> </del>			· · · · · · · · · · · · · · · · · · ·
	122	1,000	65		9.8	14	27	<del> </del>	10	<del> </del>			5000
Cyanide		1,000	0.55	13	7.0	<u> </u>	- 27	<del> </del>	10	<b></b>			
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R-spike sample recovery is not withing control limits. \*-duplicate annalysis is not within control limits.



# SAMPLE LOCATION SKETCH

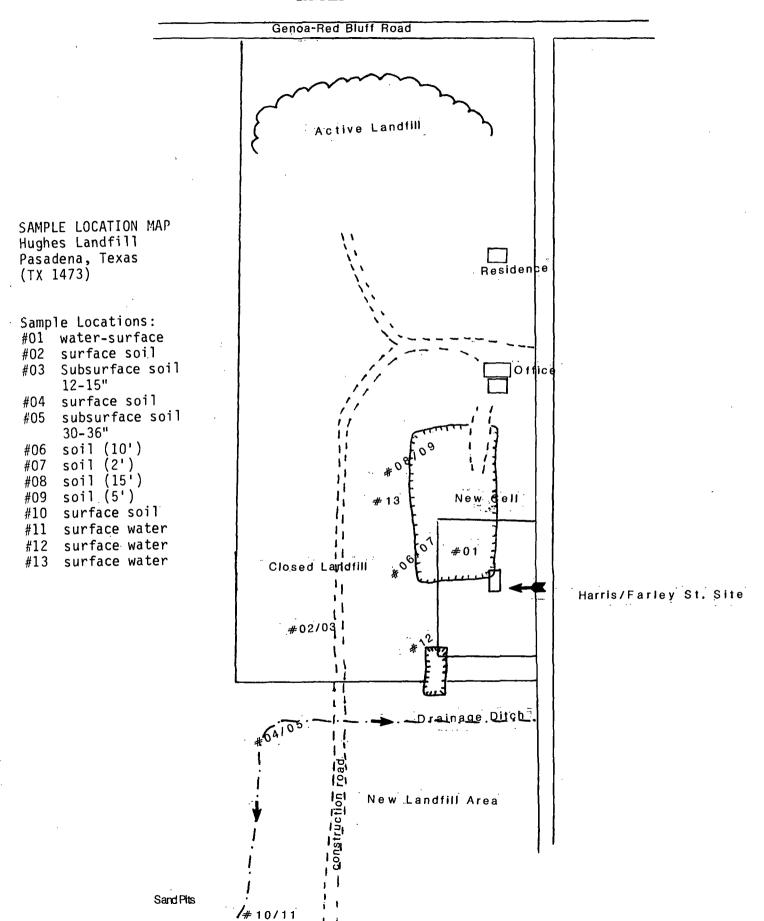
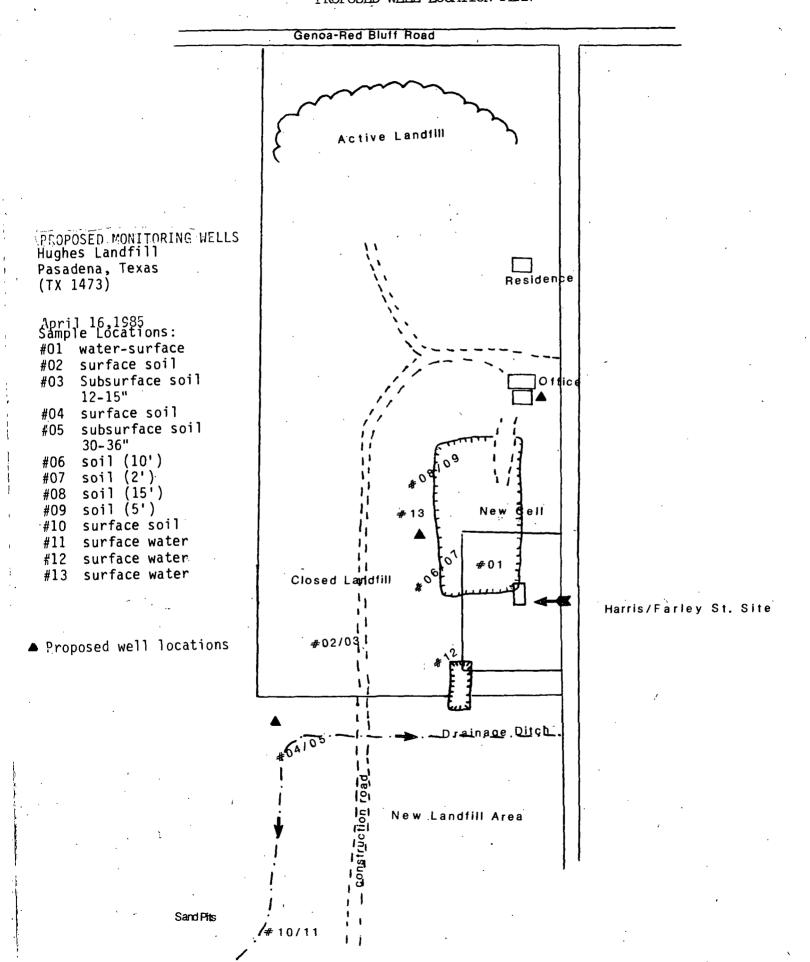


FIGURE: 3
PROPOSED WELL LOCATION PLAN



# This Document Contained Material Which Was Not Film/Scanned

Title Sampling LINSpection at Hughes Landfill,
Paradena, IX (TXV173) TDD#R6-8502-26
Sample Location Statch and Proposed Wellfocation
Plan (Photographs)

Please Refer to the File in Superfund Records Center